## AMERICAN RADIUM INDUSTRIES NYD987001476

THIS DOCUMENT IS CURRENTLY
CLASSIFIED NON-CONFIDENTIAL BY EPA
AS THE ABOVE SITE DOES NOT QUALIFY
FOR FURTHER REMEDIAL ACTION AT THIS
TIME

Report No.: 8003-09-7

# CONFIDENTIAL NOT FOR PUBLIC RELEASE

#### RECOMMENDATION

Based on information contained in the site inspection report, and additional information collected, the following conclusions were drawn. Due to the lack of documented releases at the site and the nature of the premises (ie., no open ground), a release of contaminants to the groundwater or soil is not suspected. Furthermore, there are no wells on Manhattan which are utilized for portable water. A release of contaminants to the surface water is also not suspected due to the absence of a surface water pathway. Runoff from the site enters storm drains which lead to a wastewater treatment facility. There is no overland flow pathway to surface water from the site. Surficial contamination of interior building surfaces is possible, however. As there are approximately 200 residents of the building, this potential contamination may pose a health risk to the residents or workers now occupying the site. Due to the lack of a contaminant migration pathway, this contamination is not suspected to pose a threat to off-site persons, environments or resources, and therefore the site has no NPL potential. However, because there is no record of a termination survey being performed when the license was terminated in 1976, contamination may exist within the surficial or structural components of the building. Because of the potential threat to the current 200 residents of the building, the site should be deferred to the Nuclear Regulatory Commission (NRC).

#### APPENDIX A

OMB Approval Number: 2050-0095 Approved for Use Through: 1/92

## PA Scoresheets

Note - This score is not neally
Note - This score is her site as
representative of the site as
The state of the conference of
na fluing available. any
1 700 - 10 1100
h. suplace & one
components of a 10th floor of a
busiding in markattan. High
bustang driver by desal popul
score is diwar by desse population
man partients exposure partients
of building a soft exposure pathway.
Site Name: American Podium Industries Investigator: EPA 15/9)
CERCLIS ID No.: NYD987001476 Agency/Organization:
Street Address: 43 West 16th St Street Address:
City/State/Zip: NY, NY 10011 City/State/Zip:
Date:

### SOURCE EVALUATION

Source Name:	Source Waste Quantity (WQ) Calculations:
source Description:  Rediation levels above the USEPA'S maximum allowable exposure rates may exist within structural elements of the building	The quantity of radioactive materials at this site is unknown. For this reason a volume of < 250 yd3 was assumed, and a wc score of B was assigned.

Source No.:	Source Name:	Source Waste Quantity (WQ) Calculations:
Source Descrip	nion:	
		•
·		

Source No.:	Source Name:	Source Weste C	Quantity (WQ) Calculations:
Source Description	on:		
			S:2- MG.

Site WC:

#### PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

#### PA Table 1a: WC Scores for Single Source Sites and Formulas, for Multiple Source Sites

		SINGLE	SOURCE SITES (assigned WC	scores)	MULTIPLE SOURCE SITES
T E R	SOURCE TYPE	NC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
GO X 3 T - F U E M	N/A	≤100 tb	>100 to 10,000 to	> 10,000 tb	1b + 1
Y WASTER LAM	N/A	≤500,000 lb	>500,000 to 50 million lb	> 60 million ib	/b ÷ 5,000
	Landfill	≤6.75 million ft <sup>3</sup> ≤250,000 yd <sup>3</sup>	>6.75 million to 675 million ft <sup>1</sup> > 250,000 to 25 million yd <sup>1</sup>	> 675 million ft <sup>3</sup> > 25 million yd <sup>2</sup>	ft <sup>2</sup> + 67,500 ya <sup>2</sup> + 2,500
	Surface impoundment	≤6,750 ft <sup>3</sup> ≤250 yd²	>6,750 to 675,000 ft <sup>3</sup> >250 to 25,000 yd <sup>3</sup>	> 675,000 ft <sup>3</sup> > 25,000 yd <sup>3</sup>	$tr^3 + 67.5$ $ya^3 + 2.5$
	Drums	≤1,000 drume	>1,000 to 100,000 drums	> 100,000 drums	drums + 10
O L	Tanks and non-	≤50,000 gellens-	>50,000 to 5 million gallons	>5 million gallons	gallons + 500
M	Contaminated soil	≤8.75 millen ft³ ≤250,000 yd³	>6.75 million to 675 million ft <sup>3</sup> >250,000 to 25 million ya <sup>3</sup>	>675 million ft <sup>3</sup> >25 million ya <sup>3</sup>	$ft^3 + 67,500$ $ya^3 + 2,500$
	Pile	≤8,750 ft <sup>3</sup> ≤250 yd <sup>1</sup>	>6,750 to 675,000 ft <sup>3</sup> > 250 to 25,000 yd <sup>1</sup>	>675,000 ft <sup>3</sup> >25,000 yd <sup>3</sup> .	ft <sup>3</sup> + 67.5 yg <sup>3</sup> + 2.5
	Other	\$8,750 to	>6,750 to 675,000 ft <sup>2</sup> >250 to 25,000 yd <sup>2</sup>	>675,000 ft <sup>3</sup> >25,000 yd <sup>3</sup>	ft <sup>3</sup> + 67.5 ya <sup>3</sup> + 2.5
	Landfill	≤340,000 ft <sup>2</sup> ≤7.8 acres	>340,000 to 34 million ft <sup>3</sup> >7.8 to 780 acree	>34 million ft <sup>2</sup> >780 acres	/r² + 3,400 acres + 0.078
	Surface impoundment	≤1,300 ft² ≤0.029 ecree	>1,300 to 130,000 ft <sup>1</sup> >0.028 to 2.3 scree	> 130,000 ft <sup>1</sup> > 2.9 acres	ft <sup>2</sup> + 13 acres + 0.00029
RE	Contaminated soil	≤3.4 million ft <sup>2</sup> ≤78 scree	>3,4 million to 340 million ft <sup>2</sup> >78 to 7,800 scree	>340 million ft <sup>2</sup> >7,800 scres	ft + 34,000 acres + 0.78
<b>^</b>	Pile*	≤1,300 ft <sup>1</sup> ≤0,029 ecres	>1,300 to 130,000 ft <sup>2</sup> >0,023 to 2.3 scree	>130,000 ft <sup>1</sup> >2.9 scres	ft <sup>2</sup> + 13 acres + 0.00029
	Land treatment	≤27,000 ft <sup>3</sup> ≤0.52 acree	> 27,000 to 2.7 million ft <sup>1</sup> > 0.62 to 62 scree	> 2.7 million ft <sup>1</sup> > 62 acres	ft <sup>2</sup> + 270 acres + 0.0062

\*. Use area of land surface under pile, not surface area of pile.

PA Table 1b: WC Scores for Multiple Source Sites

the amount of contanimated building Structures on-Site is Unknown, however it is assumed to be < 250 yd3

WC Score
18 .
32
100

#### GROUND WATER PATHWAY SCORESHEET

	Pathway Characteristics			
	Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?	Yes _	- No X	
	Is the site located in karst terrain?	Yes _	770 K	
	Depth to aquifer:  Distance to the nearest drinking water well:	in 4 c	piles "	
	Distance to the realist dimensy vistal	Α	8	
	<b>;</b>	Supported	No Supported	
LIKELIH	OOD OF RELEASE	Release	Release	References
		(140)		
1. SUSP	ECTED RELEASE: If you suspect a release to ground water (see page 7), i a score of 550. Use only column A for this pathway.			<u> </u>
			(100 - 140)	
2. NO SI	USPECTED RELEASE: If you do not suspect a release to ground water, and			
the si	te is in karst terrain or the depth to aquifer is 70 feet or less, assign a score 0; otherwise, assign a score of 340. Use only column B for this pathway.		340	
01 50	O; Otherwise, assign a score of dvo.		0 10	
	LR =		340	
				-
TARGET	rs			
3 DRIA	ARY TARGET POPULATION: Determine the number of people served by			
drinki	ng water wells that you suspect have been exposed to a hazardous			
su <b>bs</b> t	ance from the site (see Ground Water Pathway Criteria List, page 7).	ĺ		
	people x 10 =			<u> </u>
4. SECO	NDARY TARGET POPULATION: Determine the number of people served by			}
drink	ing water wells that you do NOT suspect have been exposed to a hazardous	ļ	Ì	ļ
subs	tance from the site, and assign the total population score from PA Table 2.			
1	Are any wells part of a blended system? Yes No	ł	10	
	If yes, attach a page to show apportionment calculations.	(80.30,18.8.3.2 = 0	(20:10.0.1.1 - 9	<del> </del>
5. NEA	REST WELL: If you have identified a primary target population for ground			]
wate	r, assign a score of 50; otherwise, assign the Nearest Well score from	1		l
PA T	able 2. If no drinking water wells exist within 4 miles, assign a score of zero.	120. L = 41	120,000	┥
6. WEL	LHEAD PROTECTION AREA (WHPA): If any source lies within or above a WHPA,		1 _	
or if	you have identified any primary target well within a WHPA, assign a score of 20;		10	ļ
	n 5 if neither condition holds but a WHPA is present within 4 miles; otherwise	18-0	16-9	1
assiq	gn zero.			
7. RES	DURCES		0	<u> </u>
	τ-	·		
WAST	E CHARACTERISTICS			_
		(100 = 32)		
8. A. I	f you have identified any primary target for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is		0	
	Characteristics acore calculated on page 4, or a score of 62, while for the GREATER; do not evaluate part B of this factor.		(100.32, or 10)	
	f you have NOT identified any primary target for ground water, assign the	(100,22, - 16)		1
В. !	you have NOT Identified any primary target to globals water, seems to waste characteristics score calculated on page 4.		116	
		<del>                                     </del>	1.0	7
	WC =	•	16	_]
				<del>-,</del>
		(subject to 4	meximum of 100)	
GROU	ND WATER PATHWAY SCORE:  LR x T x WC	. [	^	
•	82.500		O	
				<b>-</b>

### PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

#### PA Table 2a: Non-Karst Aquifers

		Nearest			Рори	lation Ser	ved by W	ells Withl	n Distance	Categor	4			
Distance from Site	Population	Well (choose highest)	1 10	11 to 30	31 to 100	101 to 300	301 10 1,000	1,001 10 3,000	2,001 to 10,000	10,001 to 30,000	30,0 10		Greeler then 100,000	Population ' Value
O to X mile	0	20	1	2	5	16	52	163	521	1,633	5,2	14	16,325	0
> % to % mile	0	18	1	1	3	10	32	101	323	1,012	3.2	33	10,121	_0_
> % to 1 mile	0	9	1	,	2	5	17	52	167	522	1,6	68	5,224	0
> 1 to 2 miles	0	5	1	1	1	3	9	29	94	294	9	39	2,938	0
> 2 to 3 miles	0	3	1	1	,	2	7	21	68	212	6	78	2,122	0_
>3 to 4 miles	0	2	,	,	١,	,	4	13	42	131	4	17	1,306	0_
	Nearest Well =	0		<del> </del>	<b>!</b>	.1							Score =	0

#### PA Table 2b: Karst Aquifers

	· 1	Nearest			Popu	lation Ser	ved by W	ells Withli	n Distance	Categor			
Distance from Site	Population	Well (use 20 for karst)	1 10	11 10 30	31 to 100	101 te 300	301 10 1,000	1,001 to 3,000	1,001 to 10,000	10,001 1• 30,000	30,001 10 100,000	Greater then 100,000	Population Value
O to X mile	- Topological	20	1)	3	1	16	52	163	521	1,633	5,214	16,325	
> % to % mile		20	" )	1.		10	32	101	323	1,012	3,233	10,121	
> % to 1 mile		20	W	/' /	( )	B	26	82	261	816	2,607	8,162	
>1 to 2 miles		20	'\	7	3	8	26	82	261	816	2,607	8,162	
> 2 to 3 miles		20	,	1	3	В	26	82	261	816	2,607	8,162	<u></u>
> 3 to 4 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
	Nearest Well ==											Score =	

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## SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

	Nearest fishery? 7 miles Nearest sorts			Α	В	,
			5	uspessed Release	No Suspected	Refere
LIHC	OD OF RELEASE			15440		
	The second of th	ace water (see page 11),				
*****	a score of page of the					
		are to suffice				
NO SL	SPECTED RELEASE: If you do not suspect a real suspect a real suspect as real s	distance to surface	•			
water	use the table below to assign a score based in and flood-frequency. Use only column 8 for this	pagaret.				
	Discourse water < 2,500 feet	500				
	Discours to surface Water > 2,500 lest, and					ļ
	Site in annual or 10-year floodplain	500			rigoth is	
	Site in 100-year floodplain	300			وأفاعلا	
	Site in 500-year Hoodplain	100			100	
	Site outside 500-year (loodplain			beds	1603,003,305 or 1003	<del> </del>
		•			100	İ
	•		LR = L			_
Reco	rd the water body type, flow (if applicable), and r ich drinking water intake within the target distant ing water intake within the target distance limit, receive zero scores.	factors 4, 5, and 6				
Reco by ea drink each	ing water intake within the target distance limit,	Row People Ser	<del>-</del>			
Reco by ea drink each	ich dinione water in the target distance limit, receive zero scores.	Row People Set				
Reco by ea drink each	ich deniang water ing water intake within the target distance limit, receive zero scores.  Water Body Type	Row	- - -		37. N. T. T.	
Reco by ea drink each	ich dender water ing water intake within the target distance limit, receive zero scorez.  Water Body Typo  MARY TARGET POPULATION: If you suspect am	factors 4, 5, and 9  Row Possile Ser	ted Water			
Reco by ea drink each	ich dender water ing water intake within the target distance limit, receive zero scorez.  Water Body Typo  MARY TARGET POPULATION: If you suspect am	factors 4, 5, and 9  Row Possile Ser	ted Water			
Reco by ea drink each Intal	ICH demands within the target distance limit, receive zero scores.  Water Body Type  MARY TARGET POPULATION: If you suspect am has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the hazardous s	factors 4, 5, and 9  Row Possile Ser	ted Water			
Reco by ea drink each Intal	ich dender water ing water intake within the target distance limit, receive zero scorez.  Water Body Typo  MARY TARGET POPULATION: If you suspect am	Actors 4, 5, and 6  Row Poople Sercfscfscfscfscfscfscfscfs om the site (see Surface is) and calculate the facto	ted Water			
Reco by ea drink each Intal	ICH demands within the target distance limit, receive zero scores.  Water Body Type  MARY TARGET POPULATION: If you suspect am has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the has been exposed to a hazardous substance from the hazardous s	Actors 4, 5, and 6  Row Poople Sercfscfscfscfscfscfscfscfs om the site (see Surface is) and calculate the facto	ted Water			
PRIA above	ICH demands water intake within the target distance limit, receive zero scorez.  Water Body Type  MARY TARGET POPULATION: If you suspect am the has been exposed to a hazardous substance from the passed on the total population served.	factors 4, 5, and 9  Row Poeple Ser	ited Water of x 10 =			
PRIM abov	ICH defined water intake within the target distance limit, receive zero scorez.  Mater Body Type  MARY TARGET POPULATION: If you suspect am has been exposed to a hazardous substance from a passed on the total population served.  ONDARY TARGET POPULATION: Determine the passed on the total population served.	factors 4, 5, and 9  Row Poeple Ser  cfs  cfs  cfs  cfs  drinking water intake lis  om the site (see Surface is) and calculate the facto  people e number of people serve	ted Water  f  x 10 =			
PRIM abov	ICH defined water intake within the target distance limit, receive zero scorez.  Mater Body Typo  MARY TARGET POPULATION: If you suspect am has been exposed to a hazardous substance from any Criteria List, page 111, list the intake name! to based on the total population served.  ONDARY TARGET POPULATION: Determine the page 121.	Actors 4, 5, and 6  Row Poeple Ser  cfs  cfs  cfs  cfs  drinking water intake lis  om the site (see Surface is) and calculate the facto  people e number of people serve	ted Water  f  x 10 =			
PRIM abov	ICH demands within the target distance limit, receive zero scores.  Water Sody Type  Water Sody Type  MARY TARGET POPULATION: If you suspect am way Criteria List, page 111, list the intake name! to based on the total population served.  ONDARY TARGET POPULATION: Determine the king water intakes that you do NOT suspect have stance from the site, and assign the total population served.	ractors 4, 5, and 9  Row Poeple Ser	ted Water  f  x 10 =			
PRIM abov	ICH demands within the target distance limit, receive zero scores.  Water Sody Type  MARY TARGET POPULATION: If you suspect amme has been exposed to a hazardous substance from way Criteria List, page 111, list the intake name!  Be based on the total population served.  ONDARY TARGET POPULATION: Determine the based on the total population served intakes that you do NOT suspect have stance from the site, and assign the total population.	factors 4, 5, and 9  Row Possie Ser	ted Water  f  x 10 =		0	
PRIM abox SECO drink sub	ICH demands within the target distance limit, receive zero scores.  Water Sody Type  MARY TARGET POPULATION: If you suspect am way Criteria List, page 111, list the intake name! a based on the total population served.  ONDARY TARGET POPULATION: Determine the king water intakes that you do NOT suspect have stance from the site, and assign the total population are any intakes part of a blended system?  If yes, attach a page to show apportionment	Actors 4, 5, and 6  Row Poople Sar	ted Water  f  x 10 =	166.26.56.2.6.	O INITIAL I.	
PRIM abov	ICH demands water intakes within the target distance limit, receive zero scores.  Water Sody Type  MARY TARGET POPULATION: If you suspect amy criteria List, page 111, list the intake name! a based on the total population served.  ONDARY TARGET POPULATION: Determine the based on the total population served.  ONDARY TARGET POPULATION: Determine the king water intakes that you do NOT suspect have stance from the site, and assign the total population are intakes part of a blended system?  If yes, attach a page to show apportionment	Actors 4, 5, and 6  Row Possio Sar	ted Water  f  x 10 =	166,26,16,1,1	O inchi.	
PRIM above SEC dring sub	ICH demands water intakes within the target distance limit, receive zero scores.  Water Sody Type  IARY TARGET POPULATION: If you suspect am way Criteria List, page 111, list the intake name! way Criteria List, page 111, list the intake name! based on the total population served.  ONDARY TARGET POPULATION: Determine the king water intakes that you do NOT suspect have stance from the site, and assign the total population are any intakes part of a blended system? If yes, attach a page to show apportionment the life of the site of the si	Actors 4, 5, and 6  Actors 4, 5, and 6  Actors 4, 5, and 6  Actors 5, and 6  Actors 6, and	x 10 = dd by rdous 3.	India to A. L.	O INCIDENCE	
PRIM abov Patriscor drin sub	ICH demands within the target distance limit, receive zero scores.  Water Sody Type  MARY TARGET POPULATION: If you suspect am way Criteria List, page 111, list the intake name! a based on the total population served.  ONDARY TARGET POPULATION: Determine the king water intakes that you do NOT suspect have stance from the site, and assign the total population are any intakes part of a blended system?  If yes, attach a page to show apportionment	Actors 4, 5, and 6  Actors 4, 5, and 6  Actors 4, 5, and 6  Actors 5, and 6  Actors 6, and	x 10 = dd by rdous 3.	1646,276, 164, 2. b, c	130,10,21, - 0	

		Nearest			P	pulation	Served by	Intakes V	WithIn Flo	w Cetego	γ			
Surface Water Body Flow	Population	Intake (choose highest)	1 60 30	31 10 100	101 to 300	301 to .	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001	300,001 to 1,000,000	Greeles Shen 1,000,000	Population Value
/see <i>PA Table 4)</i> <10 cls	O	20	2	5	16	52	163	521	1,633	5,214	16,326	52,136	163,246	0
10 to 100 cfs	0	2	1	,	2	Б	16	52	163	521	1,633	5,214	18,325	0
> 100 to 1,000 cla	0	,	٥			١,	2	6	10	52	163	521	1,633	0
			٥					١,	2	Б	10	52	163	0
>1,000 to 10,000 cfs >10,000 cfs or	<u>o</u>	0	0	0	0	0	0		1	1	2	5	16	0
Great Lakes	0	10	١.		8	26	82	281	816	2,607	8,162	26,068	81,663	0
3-mile Mixing Zone	st Intaka =		<del>                                     </del>	1	1			<del>.</del>					Score =	0

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of S	urface W	aler Body	Dilution
Water Body Type	·OR	Flow	Weight
minimal stream small to moderate stream moderate to large stream large stream to river large invot	•	< 10 cfs 10 to 100 cfs > 100 to 1,000 cfs > 1,000 to 10,000 cfs > 10,000 cfs	1 0.1 N/A N/A N/A
3-mile mixing zone of quiet flowing streams or rivers		10 cfs or greater	N/A
coastal tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes		N/A ,	N/A

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#### SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

•		<b>—</b>		
		Suspensed	No Suspensed	
		Release	Release	References
LIKELIHOOD OF RELEASE		1949)	1100,400,310 o 160	
Enter Surface Water Likelihood of Release score from page 12.	LR =	•	100	

	THREAT TARGETS	licable) for each fishery	within	*.		
ecord the Water body in he target distance limit	of there is no fisher	within the target		. 1		
istance limit, assign a	l'argets score of 0 at	the bottom of the page	•			
School Name	::	Water Sody Type	Row			
and y seems	,		cis			
			cfs			
			cfs			
			cfs	11		3
			cts			i.
ssign a score of 300 a	nd do not evaluate F	Surface Water Criteria I actor 10. List the prima	ry fisheries:	1214		and the second s
e a hazardous substant ssign a score of 300 a ECONDARY FISHERIE YOU SUSDECT & release	nd do not evaluate F	Surface Water Criteria I actor 10. List the prima		,2149		A STATE OF THE STA
c a hazardous substant ssign a score of 300 a ECONDARY FISHERIE you suspect a release sut no primary fishery,	S to surface water an assign a score of 21 release, assign a Se	Surface Water Criteria I actor 10. List the prima	ndary fishery	,214	(PA.30. et 1)	
e a hazardous substant ssign a score of 300 a ECONDARY FISHERIE you suspect a release ut no primary fishery, you do not suspect a elow using the lowest	S ato surface water an assign a score of 21 release, assign a Secretary tishery	Surface Water Criteria ( actor 10. List the prima ad have identified a seco 0. condary Fisheries score	ndary fishery from the table	2314	(174.33. a) 12	
a hazardous substantisign a score of 300 a  ECONDARY FISHERIE  you suspect a release at no primary fishery, you do not suspect a  elow using the lowest	S to surface water an assign a score of 21 release, assign a Se	Surface Water Criteria ( actor 10. List the prima ad have identified a seco 0. condary Fisheries score within the target distant	ndary fishery from the table	in the state of th	(PA.S. a) 1	
a hazardous substantisign a score of 300 a  ECONDARY FISHERIE  you suspect a release at no primary fishery, you do not suspect a  elow using the lowest  Lower  < 10	S to surface water an assign a score of 21 release, assign a Section at any fishery to see Flow	Surface Water Criteria is actor 10. List the prima actor 10. List the p	ndary fishery from the table	(2146)	(PA.S. a)	
ECONDARY FISHERIE  you suspect a release ut no primary fishery, you do not suspect a elow using the lowest  Lowe  10 10 10	S to surface water an assign a score of 21 release, assign a Section at any fishery to the flow	Surface Water Criteria is actor 10. List the prima ad have identified a second.  condary Fisheries score within the target distance secondary Fisheries Fish	ndary fishery from the table	Care	(PASS. or 1)	
ECONDARY FISHERIE  you suspect a release ut no primary fishery, you do not suspect a elow using the lowest <a href="#">Lowest</a> <a href="#">10</a> to t	s to surface water an assign a score of 21 release, assign a Secretary to the flow at any fishery to the flow at any flo	Surface Water Criteria is actor 10. List the prima actor 10. List the prima ad have identified a second.  Condary Fisheries score within the target distance.  Secondary Fisheries S. 210	ndary fishery from the table		(704.30. or 1)	

### SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

	ENVIRO	NMENIAL IHRERI 300		A	8	
	, ,			Suspense	No Suspensed	Refere
KELIHOOD OF RELI	EASE			Referen	Release	
	lihood of Release score	from page 12.	LR •	•	100	
VIRONMENTAL T	HREAT TARGETS					•
. Record the water bo sensitive environme	idy type and flow (if a) no within the target dis	opticable) for each surface wat stance limit (see PA Tables 4 it within the trace	ef .			
limit, assign a Targe	ts score of 0 at the bo	ttom of the page.				
Environment Name			•₩			
Elivater and a second			cts			
			cfs			
			cfs			È
			cts			
			cts			
Surface Water Crite	ria List, page 11), assi primary sensitive envi	nazardous substance from the gn a score of 300 and do not conments:	evaluate			كفتاكموييها
						_
present, but none is Sensitive Environme	s a primary sensitive el ents based on flow. considue environments	S: If sansitive environments a nvironment, evaluate Seconda on surface water bodies with ws, and do not evaluate part (	tiows of			
	Odusion Weight	Emirenment Type and Value		] ]	·	
Row	(PA Table 4)	(PA Tables 6 and 6)	Total	41		
cts	x			<del>- </del>	1	
cfs	×			<del>- </del>	1	
cfs	X			<b>-   </b>	1	
cts	x			-		}
cte	X		= 1	<b>-</b> ∤		

B. If all secondary sensitive environments are located on surface water bodies with flows > 100 cfs, assign a score of 10.

T =

10

American Radium Industries 8003-09-7

SURFACE WATER PATHWAY (concluded) November 30, 1992 WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

•	Α	
	Suspected.	No Suspenses
·	Release	Release
WASTE CHARACTERISTICS	(100 ar 33)	
14. A. If you have identified any primary target for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score or 15), assign the waste characteristics score calculated on page 4, or a score		
or 15), assign the waste characteristics of 32, whichever is GREATER; do not evaluate part B of this factor.	100,32. er 46	(100,32, = 144
B. If you have NOT identified any primary target for surface water, assign the		19
waste characteristics score calculated on page 4.		10
W4318 41-41-41-41-41-41-41-41-41-41-41-41-41-4		
WC =		18

SURFACE WATER PATHWAY THREAT SCORES Threat Score Pathway Waste Likelihood of LRXTXWC Characteristics (WC) Score Targets (T) Score Release (LR) Score / 82.500 (determined above) (pages 12, 14, 15) (from page 12) Threat 100 **Drinking Water** Human Food Chain 100 100 Environmental

SURFACE WATER PATHWAY SCORE
(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

American Industries 8003-09-7 Radium November 30, 1992
SOIL EXPOSURE PATHWAY SCORESHEET

200 to of areas of suspected contained dotte	es X No
DO SITY DECIDIO MAG ON OF WHAT AND A STATE OF ST	
The state of the	/es No 🗶
Do any people attend school or daycare on or within 200 ft of areas  Do any people attend school or daycare on or within 200 ft of areas	- NO -
of suspected contamination.	
of suspected contamination?  Is the facility active? Yes \( \sum \) No If yes, estimate the number of workers: \( \le \sum \) [O	
	ected
·	nination Refer
	- 4
SUSPECTED CONTAMINATION: Surficial contamination can generally be assumed.	
SUSPECTED CONTAMINATION: Surficial Contamination only if the absence of surficial and a score of 550 assigned. Assign zero only if the absence of surficial	
and a score of 550 assigned. Assign zero day, it contamination can be confidently demonstrated.	
contamination can be confidently contamination	
TARCETS	
SIDENT POPULATION THREAT TARGETS	
RESIDENT POPULATION:- Determine the number of people occupying residences	•
The second of develope AN OF WITHIN AUG 1886 VI GIGGS OF SECOND	İ
	00
contamination (see Soil Exposure Fauther Cities 200 people x 10 =	
	4 - 4
RESIDENT INDIVIDUAL: If you have identified a resident population (factor 2).	in l
assign a score of 50; otherwise, assign a score of 0.	——————————————————————————————————————
499ifit 4 senie at ant american	
WORKERS: Use the following table to assign a score based on the total number of	
WORKERS: Use the following table to describe with suspected contamination:	
Manage of Violaties	
	1
1 to 100 5	<b>-</b>
101 to 1,000 10	ワー
> 1,000	
for each terrestrial sensitive environment on an area of suspected contamination:    Terrestrial Sensitive Environment Type   Value	•
	$\sim$
Sum =	
	16-4
accounted to	$\sim$
RESOURCES	<u></u>
	^~=
T=1 2	しつり
Laurinia de la composición dela composición dela composición de la composición de la composición dela composición dela composición de la c	
ASTE CHARACTERISTICS	A 20 19
	a
Assign the waste characteristics score calculated on page 4. WC =	$\sigma$
	4 103
ESIDENT POPULATION THREAT SCORE: LE X T X WC	
ESIDENT POPULATION THREAT SCORE:  LE X T X WC 82,500.	$\cap$
82,300,	
<u></u>	
TARRY ROPUL ATION TUDEAT SCORF:	H- 3 = 11
EARBY POPULATION THREAT SCORE:	<u>u</u>
<del></del>	
<u> </u>	4 100
OIL EXPOSURE PATHWAY SCORE:	)() -
lesident Population Threat + Nearby Population Threat	
<del></del>	

Paulway Characteristics	Yaa	No
Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual:	Yos	
Distance of the Control of the Contr	Suspensed	No Suspenses
KELIHOOD OF RELEASE	Release	жаны
SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a		i and a
NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500. Use only column 8 for this pathway.		500
LR =		500
ARGETS	,	<u> </u>
3. PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a suspected release of hazardous substances to the air.  people x 10 =		
<ol> <li>SECONDARY TARGET POPULATION: Determine the number of people not suspected to be exposed to a release to air, and assign the total population score using PA Table 8.</li> </ol>	(60.36.1.1.L e 4	1243
5. NEAREST INDIVIDUAL: If you have identified any Primary Target Population for the air pathway, assign a score of 50; otherwise, assign the Nearest Individual score from PA Table 8.		20
6. PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wedand acreage values (PA Table 9) for environments subject to exposure from a suspected release to the air.    Sensitive Environment Type		
<ol> <li>SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.</li> </ol>	i b = 44	0
8. RESOURCES		1263
<b>T</b> ,	_ (	
9. A. If you have identified any Primary Target for the air pathway, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	(100.33. a 131	11/00.00 or 100
B. If you have NOT identified any Primary Target for the air pathway, assign the waste characteristics score calculated on page 4.		18
wc		18
	1	19 C - CALLED & 19E
AIR PATHWAY SCORE:  LR x T x WC 82,500	10	00.00

	T	Nearest		Population Within Distance Category											
!	1	Individual	1	11	31	101	301	1,001	2,001	10,001	30,001	100,001	300,001	Greeled	Booulettee
Distance	l .	(choose	to	to .	te	to	te	10	to	to .	to .	lo l	10	than	Population
from Site	Population	highest)	70	30	100	300	1,000	1 000	10,000	30,000	100,000	300,000	1,000,000	1,000,000	Value
Onsite	200	(29)	. 1	2	5	(16)	52	163	521	1,633	5,214	16,325	<b>62,136</b>	163,246	16
>0 to X mile	14963	20	1	,	,	4	13	- 41	130	<b>69</b>	1,303	4,081	13,034	40,811	408
> X to X mile	42918	2	٥		,	,	3		28	88	282	882	2,815	8,815	282
> X to 1 mile	166500		٥		0	,	,	3		26 .	83	201	834	2,612	261
>1 to 2 miles	259380		۰				1.	,	3		27	10	268	833	83
> 2 to 3 miles	100100	,			0		,	1	,	4	12	38	120	376	190
>3 to 4 miles	1300	1			٥	0		,	,	2	7	23	13	229	73
	t Individual =	20	1					<del>-1</del>						Score =	1243

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Wetland Area	Assigned Value			
Less than 1 acre	0			
1 to 50 acres	25			
Greater than 50 to 100 acres	75			
Greater than 100 to 150 acres	125			
Greater than 150 to 200 acres				
Greater than 200 to 300 acres	250			
Greater than 300 to 400 acres	350			
Greater than 400 to 500 acres	450			
Greater than 500 acres	500			

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

Distance	Distance Weight	Sensitive Environment Type and Value (from PA Table 5 or 9)	Product
Onsite	0.10	×	<del></del>
		×	_
		×	
0-1/4 mi	0.025	×	
		×	
		x	
1/4-1/2m	0.0054	x	
		x	
	1	x :	
		Total Environments Score	

American Industries 8003-09-7

Radium

#### SITE SCORE CALCULATION

	1 4	Market a constant and a second
en e	S	S <sup>2</sup>
GROUND WATER PATHWAY SCORE (S <sub>ow</sub> ):	0.00	0.00
SURFACE WATER PATHWAY SCORE (S.,):	059	0.35
SOIL EXPOSURE PATHWAY SCORE (S,):	100.00	10000.00
AIR PATHWAY SCORE (S.):	100.00	10000.00
SITE SCORE:	$\frac{S_{gw^2} + S_{sw^2} + S_{s^2} + S_{a^2}}{4}$	70.71

and the second second second second second second second second second second second second second second second	YES	NO
Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water?		0
A. If yes, identify the well(s).		
B. If yes, how many people are served by the threatened well(s)?		
Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?		
<ul> <li>A. Drinking water intake</li> <li>B. Fishery</li> <li>C. Sensitive environment (wetland, critical habitat, others)</li> <li>D. If yes, identify the target(s).</li> </ul>	000	
Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility?		
If yes, identify the property(ies) and estimate the associated population(s).		
Are there public health concerns at this site that are not addressed by PA scoring considerations? If yes, explain:	ď	
the second control of the second control of	]	
AND THE RESERVE OF THE PARTY OF	-	1

SITE RECORD REGION II FY: DATES----WAM: TDM: DUE: NAME: Unerican Bladium Industries EPA ID: NYD987001476 STATE ID: EVENT TYPE: PA EVENT DATE: 11/30/9- LEAD: MFT COUNTY: New York ST: NY
EVENT QUALIFIER: defent to RECOMMENDED ACTION: defent to NAC

(PA,SI,ESI,HRS,RA,RI/FS,DEFER TO RCRA OR NRC,OTHER)
PATHWAY SCORES GW: 0 SW: 0.59 AIR: 100 SE/DC: 100 TOTAL: 70.71 COMMENTS: Hop HAS score not realistic - drives only by dense air pop. + 200 on wite randent. Ho complete PATHWAYS OF CONCERN: h/a LIKELIHOOD OF SCORING: i.Actual/Obs. release: n/a ii.Targets (primary, secondary): h/a iii. Hazardous Waste Characteristics: Ra dium - 226 and |end-210 Additional information requirements: Adequacy of information: (H=able to score, M=maybe, L=unlikely) Notification of: NRC necommended

(Removal, Remedial, State, Fed. Facility, RCRA, NRC, Other)

REVIEWER: CONTROL SIGNATURE

POST REVIEW EVENTS—RCRA CHECK: STATE CONCURS: COMP. DATE: 12/26/92 Akar- Canadian Radiuni, Comad-Hanovia; International Rare metal Reforery; Conrad PRECION Industries.

Platium - 226 and lead - 210 Landled on 10th floor of the postory building from 1960-76.
No spills, etc., known. No record of a DOL No spills, etc., known. No record of a DOL survey of stee after permit cancelled latowners survey of stee after permit cancelled latowners express) in 1976. Therefore, unknown whether permet are contaminated or not. No threat of possed to off-site targets, despite high partial to possed to off-site targets, despite high partial. However, due to potential threat to 200 current residents of building, the site should be deferred to the NRC.